



COLD ROLLED CAPABILITIES

Chemistries meet ASTM A568 AND SAE J403

ASTM A1008 EDDS	
1001 (IF Steel)	
Nominal Gauge	Width Range
.0120 - .0139	33 - 34.849
.0140 - .0159	33 - 37.849
.0160 - .0179	33 - 38.849
.0180 - .0199	33 - 40.849
.0200 - .0249	33 - 41.849
.0250 - .0299	33 - 43.849
.0300 - .0349	33 - 44.849
.0350 - .0399	33 - 45.849
.0400 - .0990	33 - 50.789

ASTM 1008 CS, DS, DDS, SS Grade 25, 30 Full Hard	
1005-1008	
Nominal Gauge	Width Range
.0100 - .0119	33 - 43.849
.0120 - .0179	33 - 48.789
.0180 - .0199	33 - 49.789
.0200 - .1200	33 - 50.789

ASTM 1008 CS, SS Grade 25, 30, 33, 40 1/4 Hard, 1/2 Hard, Full Hard	
1010-1015	
Nominal Gauge	Width Range
.0120 - .0139	33 - 43.849
.0140 - .0179	33 - 44.849
.0180 - .0199	33 - 47.849
.0200 - .0249	33 - 48.789
.0250 - .0299	33 - 49.789
.0300 - .1200	33 - 50.789

ASTM 1008 SS Grade 30, 33, 40 1/4 Hard, 1/2 Hard, Full Hard	
1017-1020, Excluding 1018	
Nominal Gauge	Width Range
.0140 - .0169	33 - 41.849
.0170 - .0199	33 - 42.849
.0200 - .0249	33 - 44.849
.0250 - .0299	33 - 46.849
.0300 - .0399	33 - 48.789
.0400 - .0449	33 - 49.789
.0450 - .1200	33 - 50.789

1016, 1018 & 1021-1025	
Nominal Gauge	Width Range
.0170 - .0199	33 - 41.849
.0200 - .0249	33 - 43.849
.0250 - .0299	33 - 44.849
.0300 - .0349	33 - 46.849
.0350 - .0399	33 - 47.849
.0400 - .0499	33 - 48.789
.0500 - .0549	33 - 49.789
.0550 - .1200	33 - 50.789

1M23	
Nominal Gauge	Width Range
.0180 - .0199	33 - 38.849
.0200 - .0249	33 - 41.849
.0250 - .0299	33 - 43.849
.0300 - .0349	33 - 44.849
.0350 - .0399	33 - 45.849
.0400 - .0449	33 - 46.849
.0450 - .0499	33 - 47.849
.0500 - .1200*	33 - 48.789*

1026	
Nominal Gauge	Width Range
.0225 - .0249	33 - 39.849
.0250 - .0299	33 - 40.849
.0300 - .0349	33 - 41.849
.0350 - .0399	33 - 42.849
.0400 - .0499	33 - 43.849
.0500 - .0549	33 - 44.849
.0550 - .0120*	33 - 45.849

1027-1035	
Nominal Gauge	Width Range
.0250 - .0299	33 - 36.849
.0300 - .0399	33 - 38.849
.0400 - .0449	33 - 39.849
.0450 - .0499	33 - 40.849
.0500 - .0599	33 - 41.849
.0600 - .0649	33 - 42.849
.0650 - .0999	33 - 43.849

gages > .060 may be width limited, see cap chart

gages > .070 may be width limited, see cap chart

gages > .075 may be width limited, see cap chart

HSLA- Grade 0645 - 0655	
Nominal Gauge	Width Range
.0155 - .0199	33 - 35.849
.0200 - .0249	33 - 37.849
.0250 - .0299	33 - 38.849
.0300 - .0349	33 - 40.849
.0350 - .0399	33 - 42.849
.0400 - .0499	33 - 43.849
.0500 - .0549	33 - 44.849
.0550 - .0599	33 - 45.849
.0600 - .0649	33 - 46.849
.0650 - .0749	33 - 47.849
.0750 - .1200	33 - 48.789

1M30	
Nominal Gauge	Width Range
.0250 - .0299	33 - 34.849
.0300 - .0399	33 - 35.849
.0400 - .0449	33 - 36.849
.0450 - .0549	33 - 37.849
.0550 - .0599	33 - 38.849
.0600 - .0699	33 - 39.849
.0700 - .0949	33 - 40.849
.0950 - .0990	33 - 39.849

General Tempers (Low Carbon)

- Full Hard (#1 Temper)
- Three Quarter Hard
- Half Hard (#2 Temper)
- Quarter Hard (#3 Temper)
- Commercial Steel (#4 Temper)
- Drawing Steel (#5 Temper)
- Deep Drawing Steel

Hardness Range (Low Carbon)

- 84 RB Min (90 RB Min under .070)
- 75/90 RB
- 70/85 RB
- 60/75 RB
- 65 RB Max (Skin Passed)
- 55 RB Max (Dead Soft)
- 45 RB Max

NOTE: Other intermediate or specific temper ranges available by inquiry
NOTE: These apply to Low Carbon only, High Carbon and Alloy have different values, see next page

HSLA- Grade 0665	
Nominal Gauge	Width Range
.0200 - .0249	33 - 35.849
.0250 - .0299	33 - 37.849
.0300 - .0349	33 - 38.849
.0350 - .0399	33 - 39.849
.0400 - .0449	33 - 40.849
.0450 - .0499	33 - 41.849
.0500 - .0549	33 - 42.849
.0550 - .0599	33 - 43.849
.0600 - .0699	33 - 44.849
.0700 - .0749	33 - 45.849
.0750 - .0849	33 - 46.849
.0850 - .0949	33 - 47.849
.0950 - .1200	33 - 48.789

1050 - Tandem Rolled	
Nominal Gauge	Width Range
inquire	inquire

1050-1074 & ALLOY - Z-MILL Rolled	
Nominal Gauge	Width Range
.015 - .125	30" - 52"

Oil Coating Weights for RP oil when desired:

- regular / light = 80 mg/sqft (applied to one side)
- medium = 120 mg/sqft (applied to one side)
- *heavy = 200 mg/sqft (applied to one side)

*cannot be used on bright finishes

Standard Finishes

- Heavy Matte
- Medium Matte
- Regular / Light Matte (#1)
- Standard Commercial Bright (#2)
- Commercial Bright
- Commercial Bright (plating applications)

Typical Surface Roughness

- 60/90 AA (inquire) (~1.5 - 2.3 Microns)
- 40/65 AA (~1.0 - 1.7 Microns)
- 20/40 AA (~.5 - 1.0 Microns)
- 25 AA Max (~.6 Microns Max)
- 15 AA Max (~.4 Microns Max)
- 10 AA Max (~.25 Microns Max)

Measurement standards for Finish

- Ra = AA (Roughness Average, our mill standard in *micro-inches*)
- *RQ = RMS (Root Mean Square) - Generally ~10% higher than Ra
- *RZ = Rmax (Max peak height) - Generally 2X Ra
- *Must be inquired - these are very different measurement techniques and are not necessarily easily converted. The factors above are for general reference only.